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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,304	01/23/2004	Casey Moroschan	350-3US	4628
20212 THOMPSON I	7590 05/03/200 LAMBERT LLP	EXAMINER		
c/o Berger & A	Altmann	LAGMAN, FREDERICK LYNDON		
2711 JEFFERSON DAVIS HIGHWAY Suite 401A Airport Plaza One			ART UNIT	PAPER NUMBER
ARLINGTON,		3673		
			MAIL DATE	DELIVERY MODE
			05/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
		10/762,304	MOROSCHAN, CAS	MOROSCHAN, CASEY			
	Office Action Summary	Examiner	Art Unit				
	·	Frederick L. Lagman	3673				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet w	ith the correspondence addr	ess			
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING DA asions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. be period for reply is specified above, the maximum statutory period of the to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MO , cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this com BANDONED (35 U.S.C. § 133).				
Status			•				
1)	Responsive to communication(s) filed on						
2a) <u></u>	This action is FINAL . 2b)⊠ This	action is non-final.	r.				
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims		•				
4)⊠	Claim(s) 1-23 is/are pending in the application						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	Claim(s) is/are allowed.			÷			
6)⊠	Claim(s) 1-23 is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/o	r election requirement.					
Applicati	on Papers						
9) 🗀	The specification is objected to by the Examine	٠ ٢٠.					
10)⊠ The drawing(s) filed on <u>1-23-04</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) _l	a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received						
1. Certified copies of the priority documents have been received.2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
	,						
Attachmen	t(s)						
1) Notic	e of References Cited (PTO-892)	4) Interview	Summary (PTO-413)				
	e of Draftsperson's Patent Drawing Review (PTO-948)		(s)/Mail Date.				
3) X Inform Pape	Motice of Informal Patent Application Sign Si						

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DETAILED ACTION

Claim Objections

1. Claim 7 is objected to because of the following informalities: line 2, it appears that "prove" should be --probe--. Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 9-11, and 13-15 are rejected under 35 U.S.C. 102(b) as being anticipated by EP 0 851 064 to Canteri. Canteri discloses the injection of polymeric resin into a volume of loose granular material such as sand, soil, or silt.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2-7, 12, and 16-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 0 851 064 to Canteri in view of Goughnour #5,279,502. Both Canteri and Goughnour disclose the strengthening of soils by increasing the load bearing capacity for building foundations or the like. Canteri discloses all that is claimed except for placing granular material in the hole and agitating the granular material.

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Goughnour discloses the placement of stone, gravel or sand to form a column or pile in order to stabilize the soil, see col. 1, lines 15-23. Goughnour also discloses the use of vibrators and/or compactors to allow agitating of the granular material. It would have been obvious to one of ordinary skill in the art to fill a hole with sand, stone or gravel, and to agitate such material, since doing so facilitate construction of a column/pile which allows for the stabilization of soil. Depending on the distance of the piles, it is capable to make a barrier wall. Furthmore, it appears that such piles may be formed in various soils including permafrost type soils.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frederick L. Lagman whose telephone number is 571-272-7043. The examiner can normally be reached on Monday-Friday 9:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patricia Engle can be reached on 571-272-6660. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Frederick L. Lagman Primary Examiner Art Unit 3673

FLL